

Fig. 1

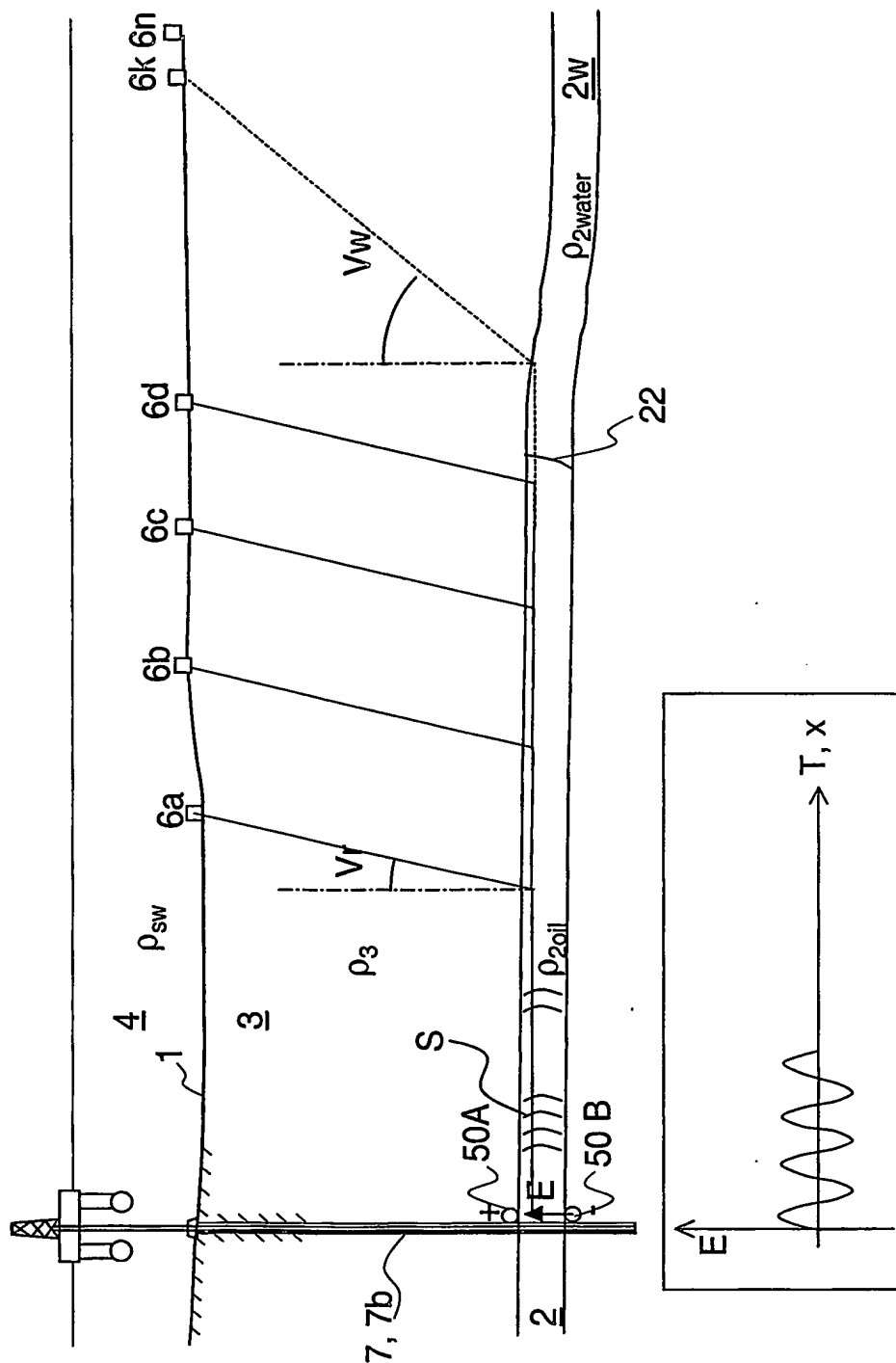
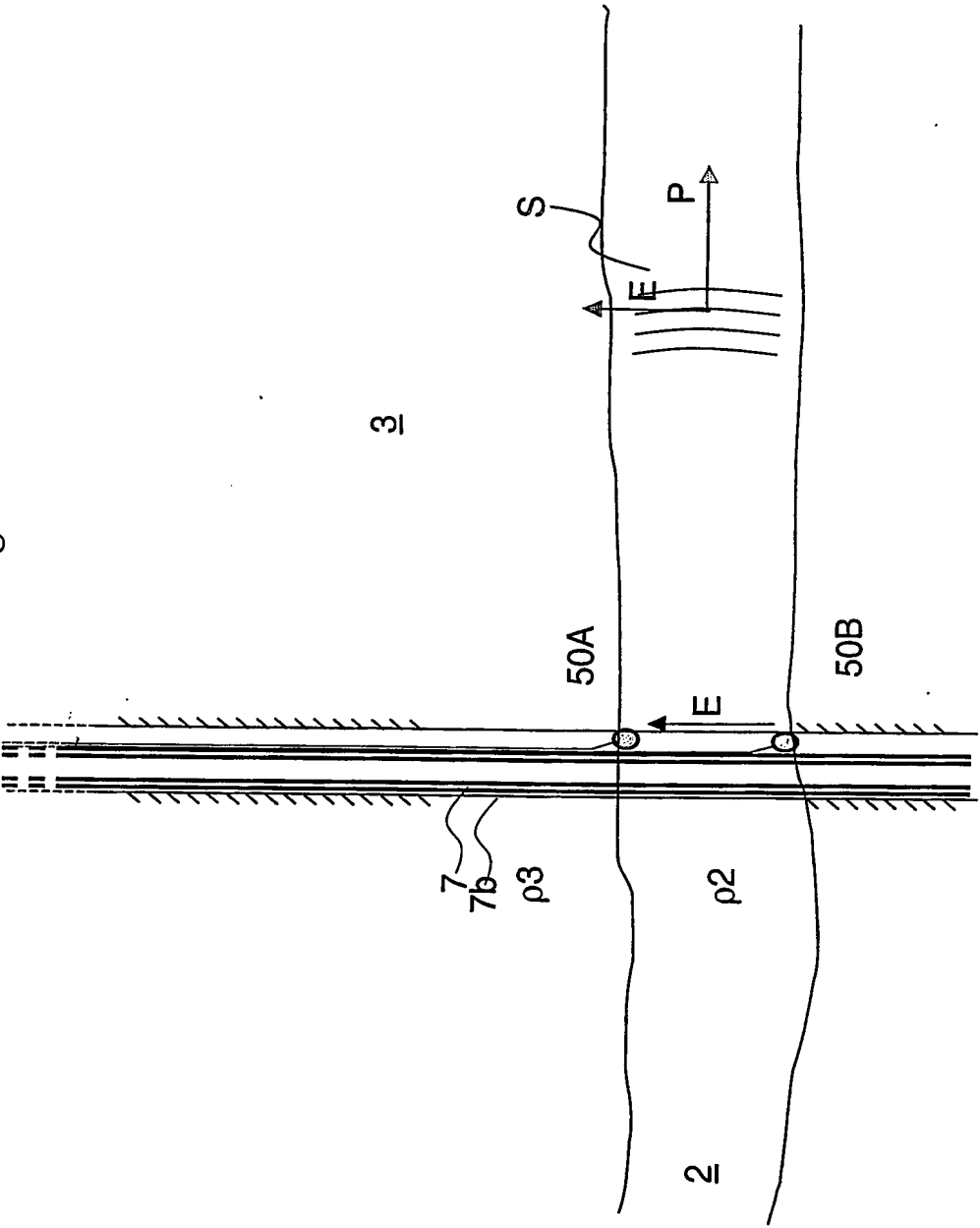
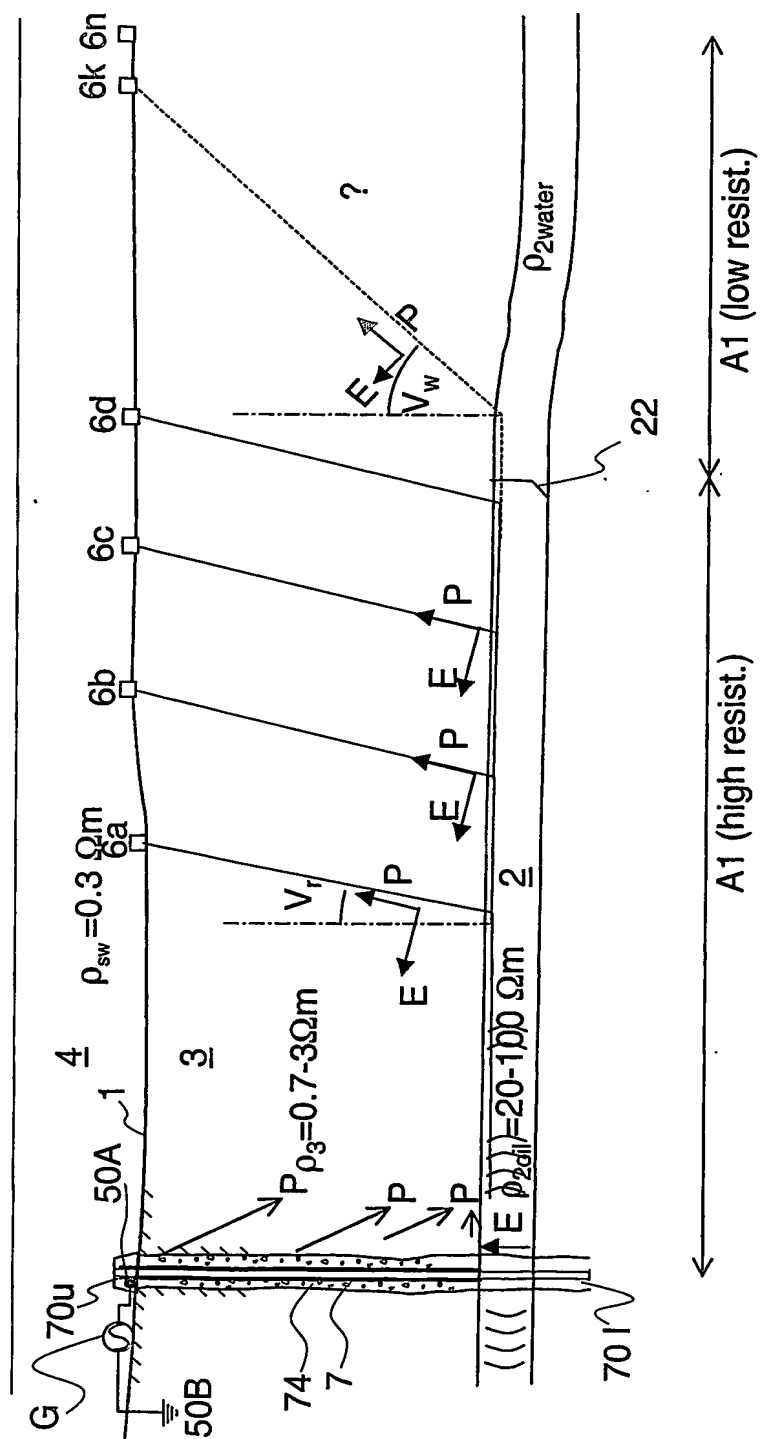


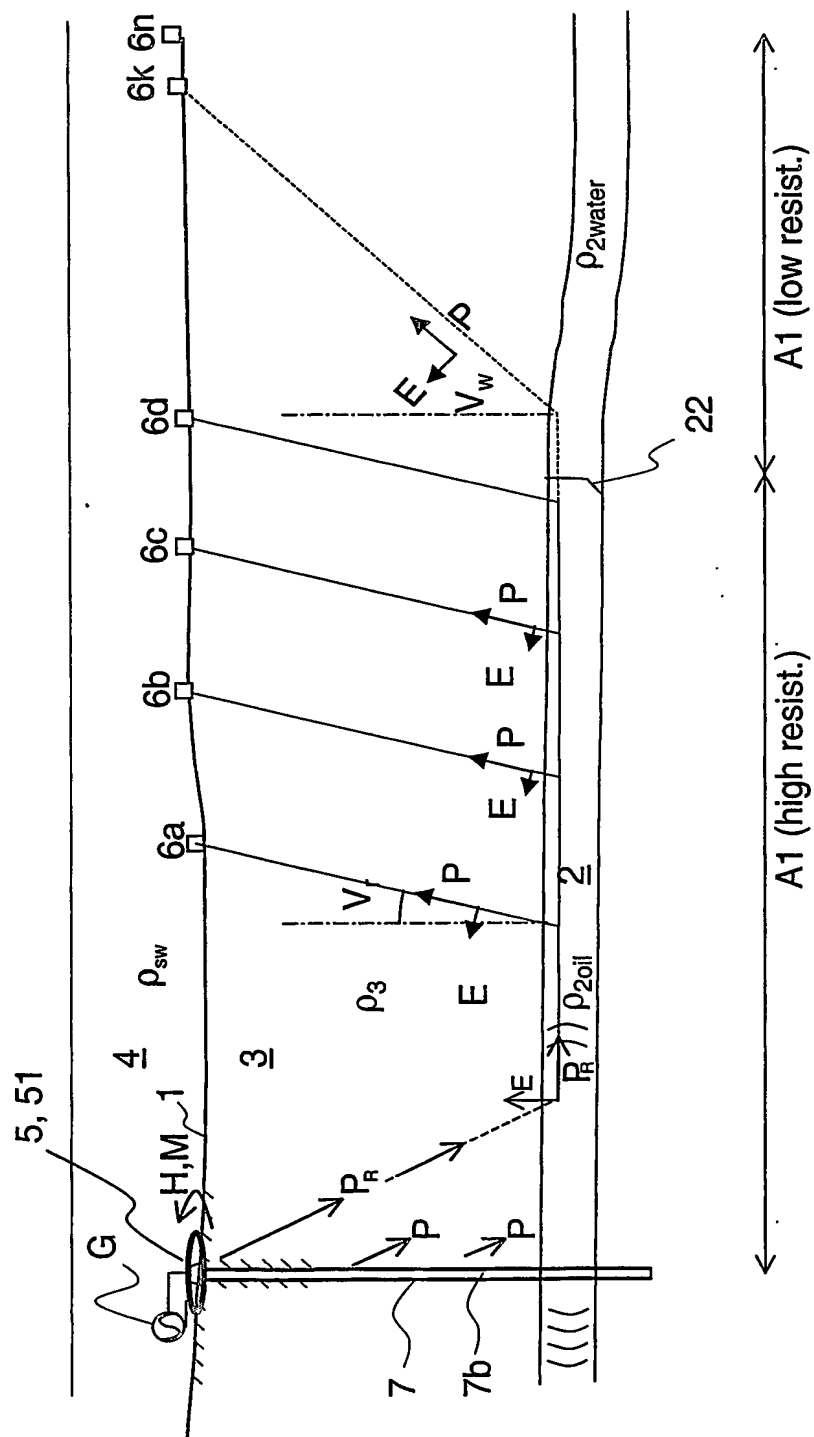
Fig. 2



*Fig. 3a*



*Fig. 3b*



*Fig. 3c*

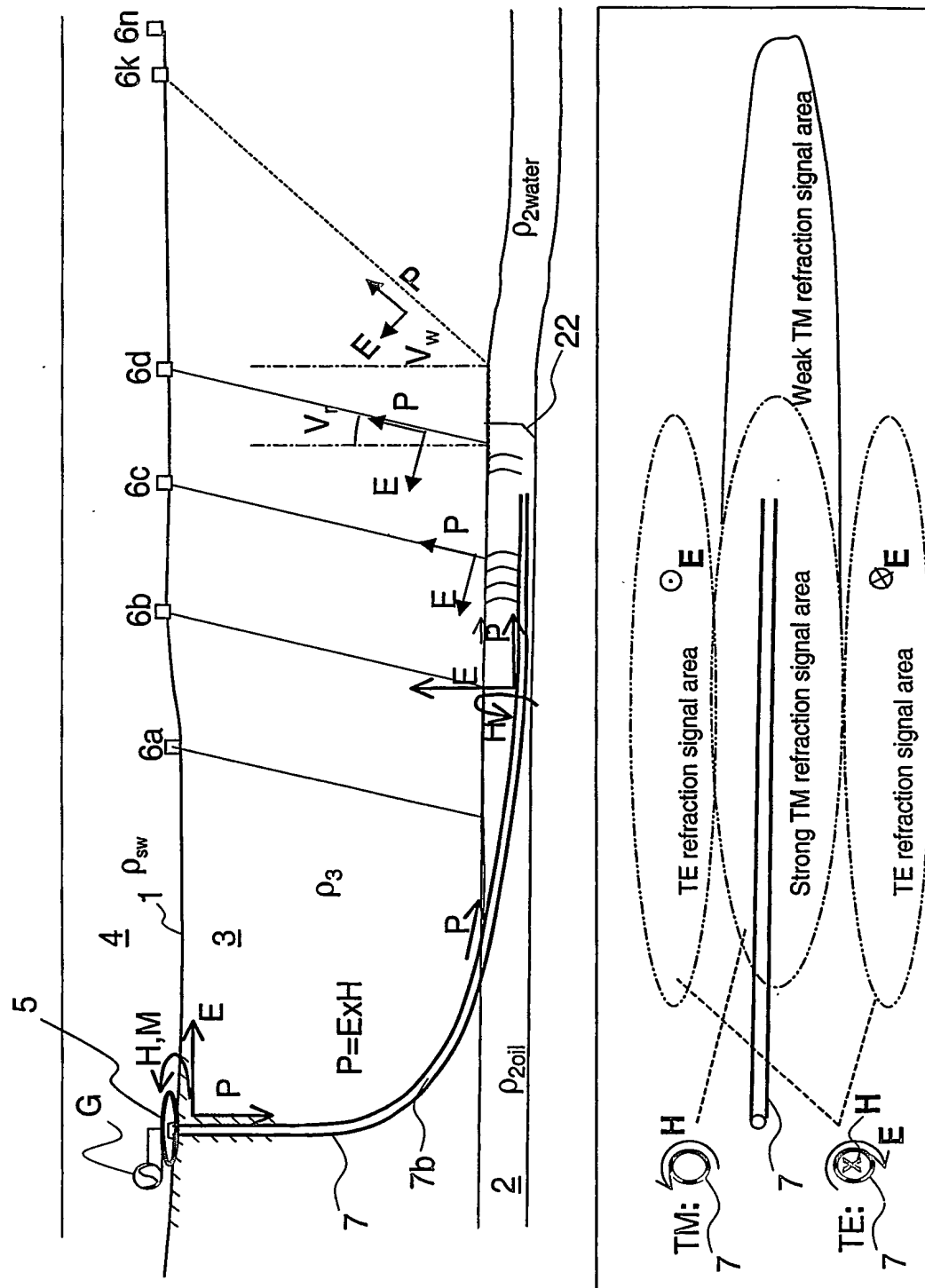
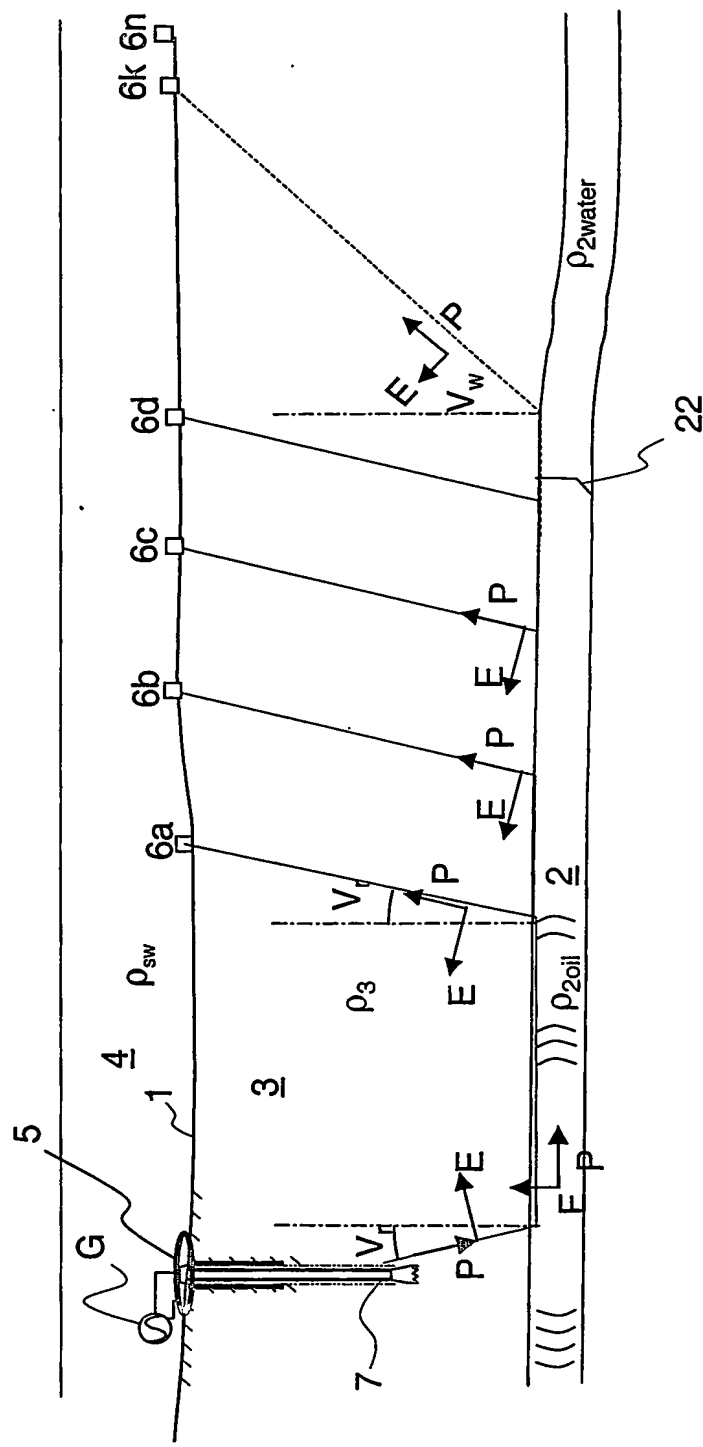
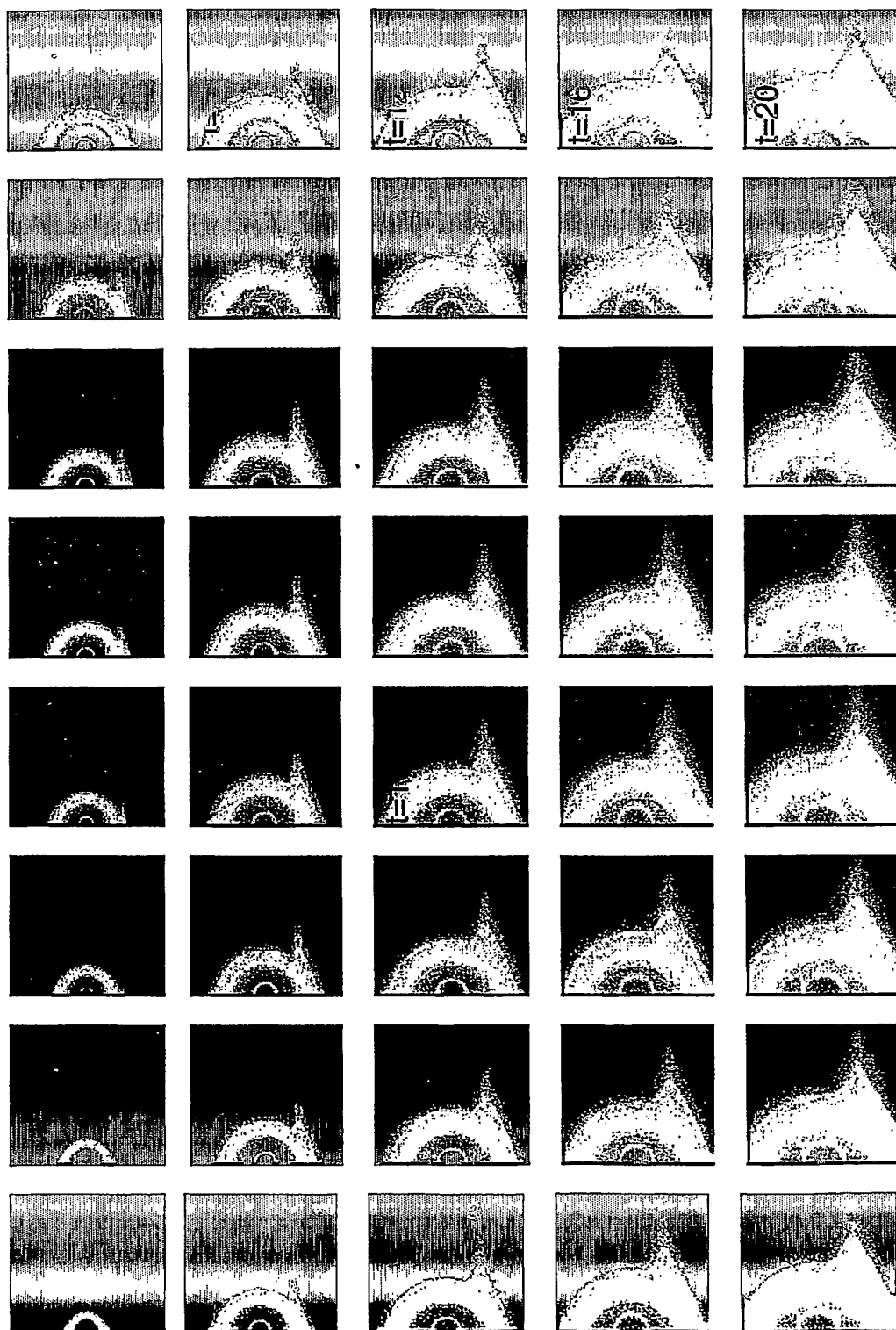


Fig. 3d

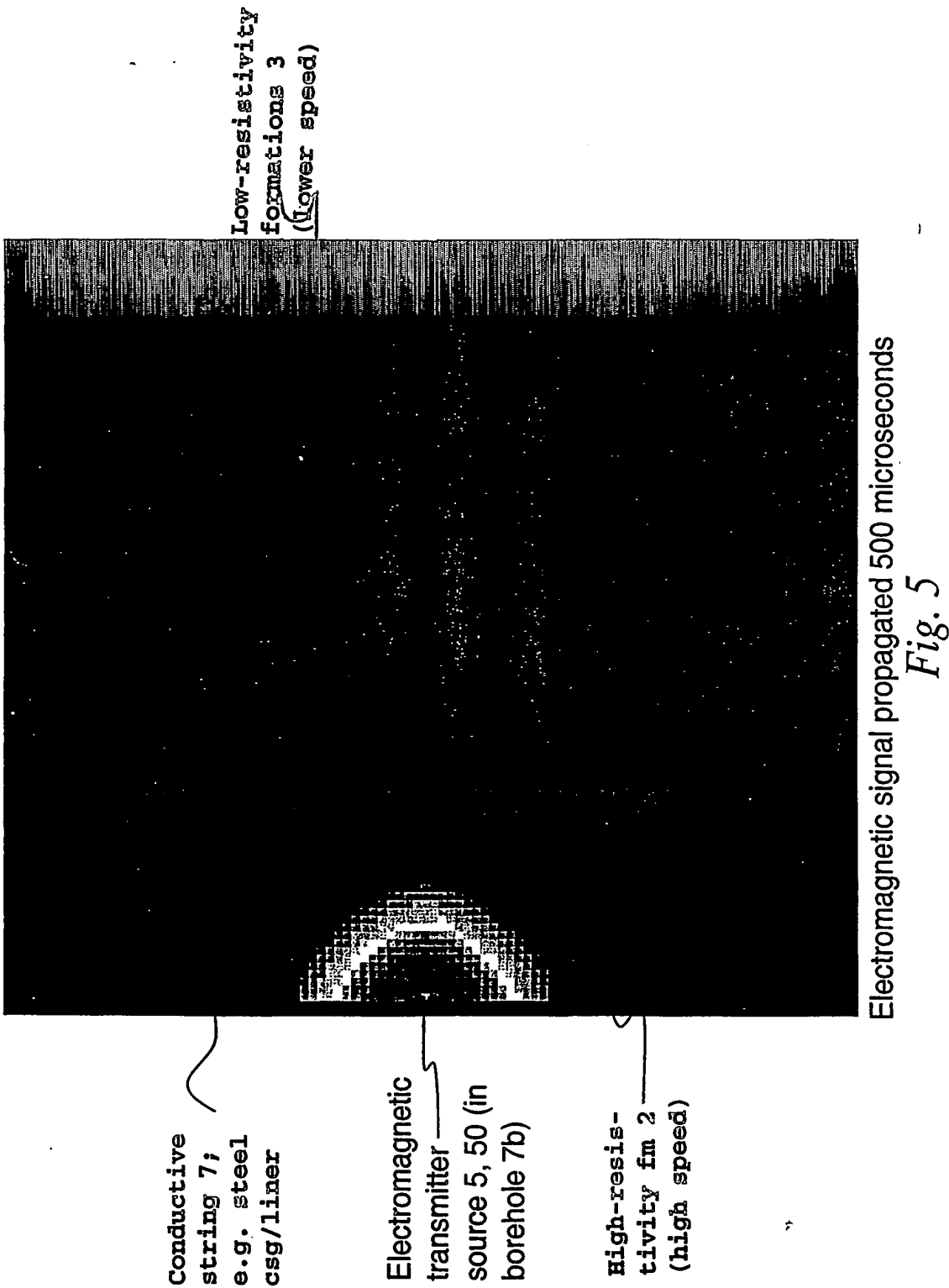


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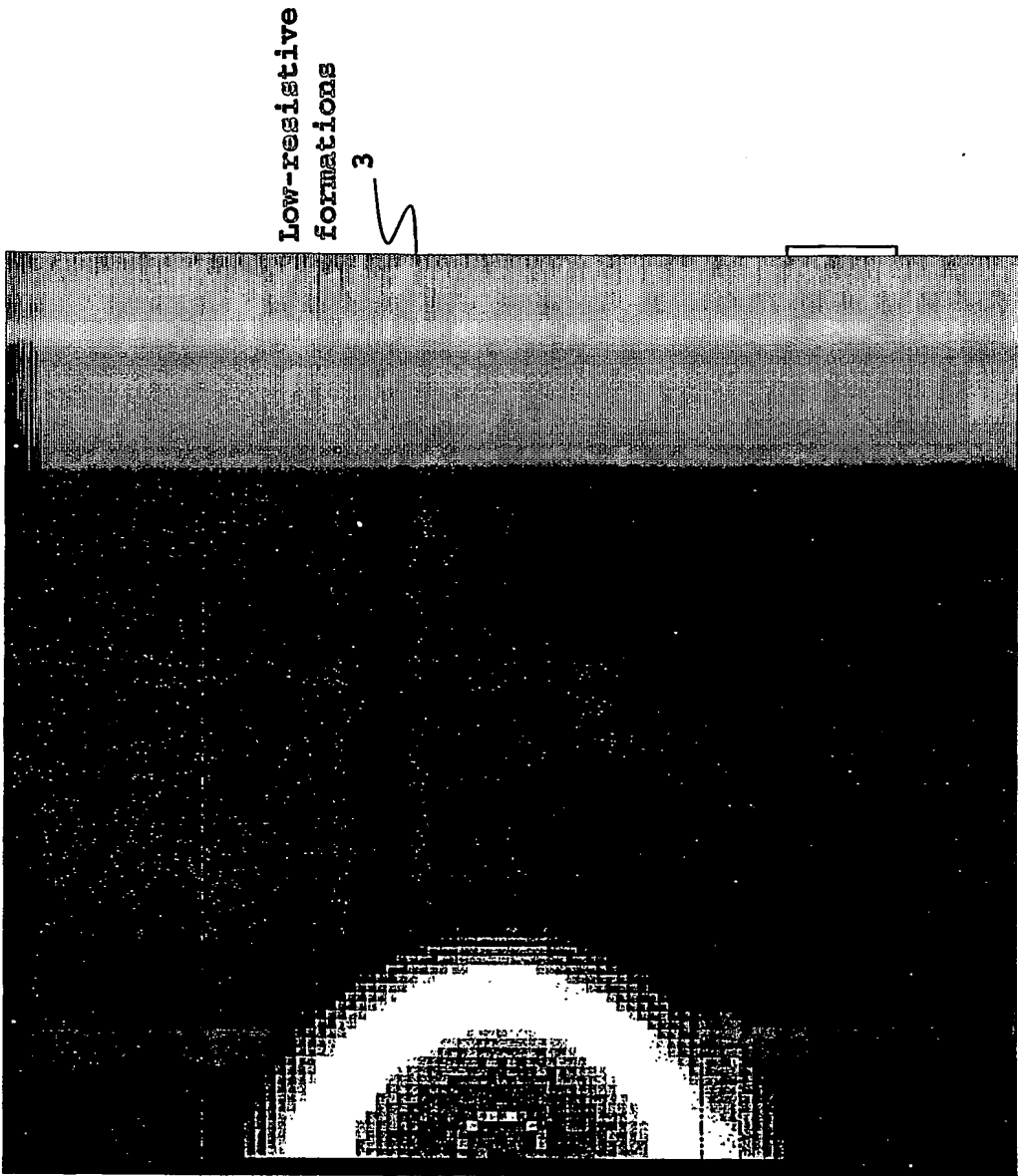
EM wave propagation from 500 to 20000 microseconds.  
Time increment 500 microsec,

**Fig. 4**





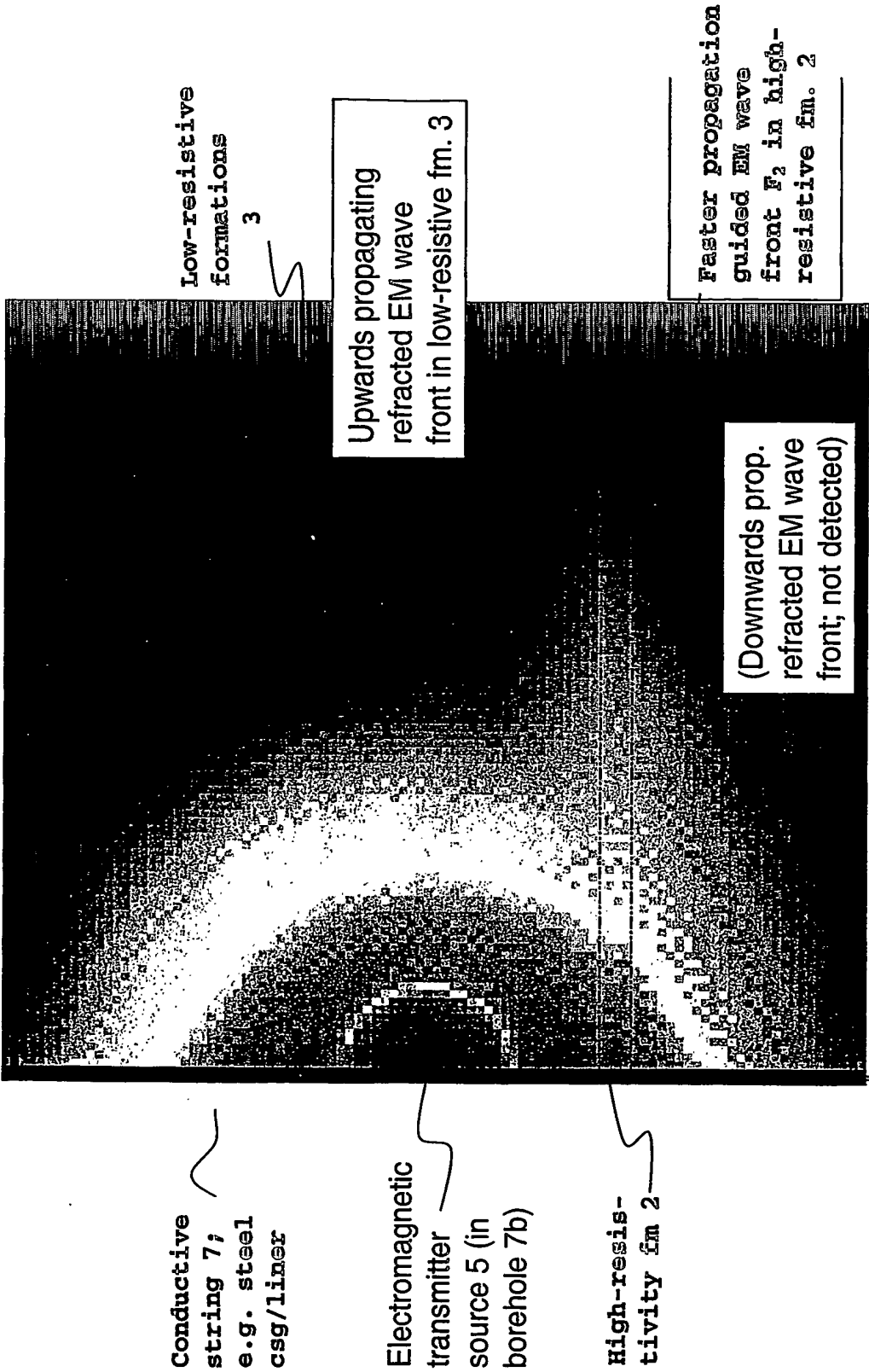
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Electromagnetic signal propagated 2 000 microseconds

Fig. 6

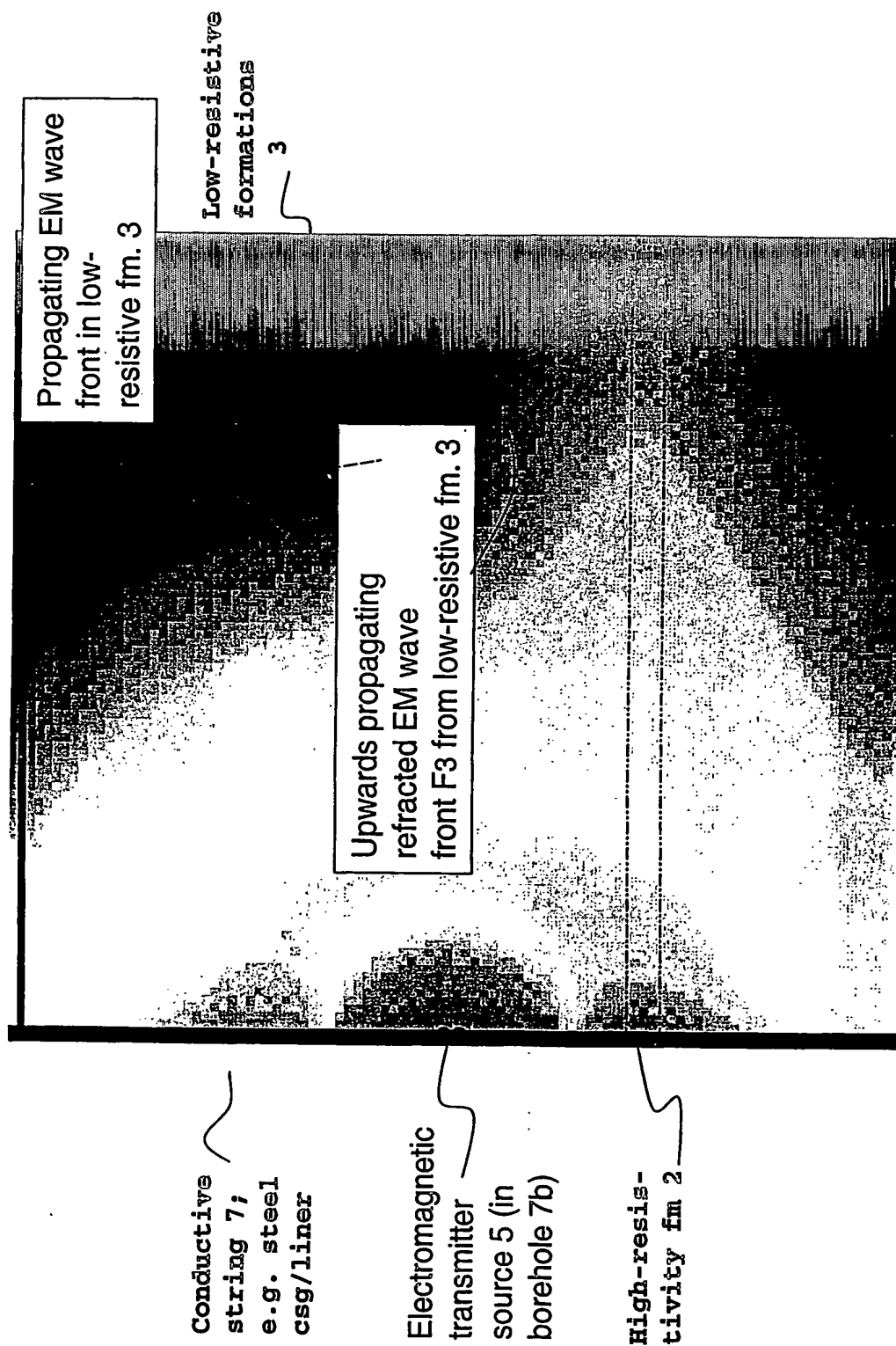
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Electromagnetic signal propagated 10 000 microseconds

Fig. 7

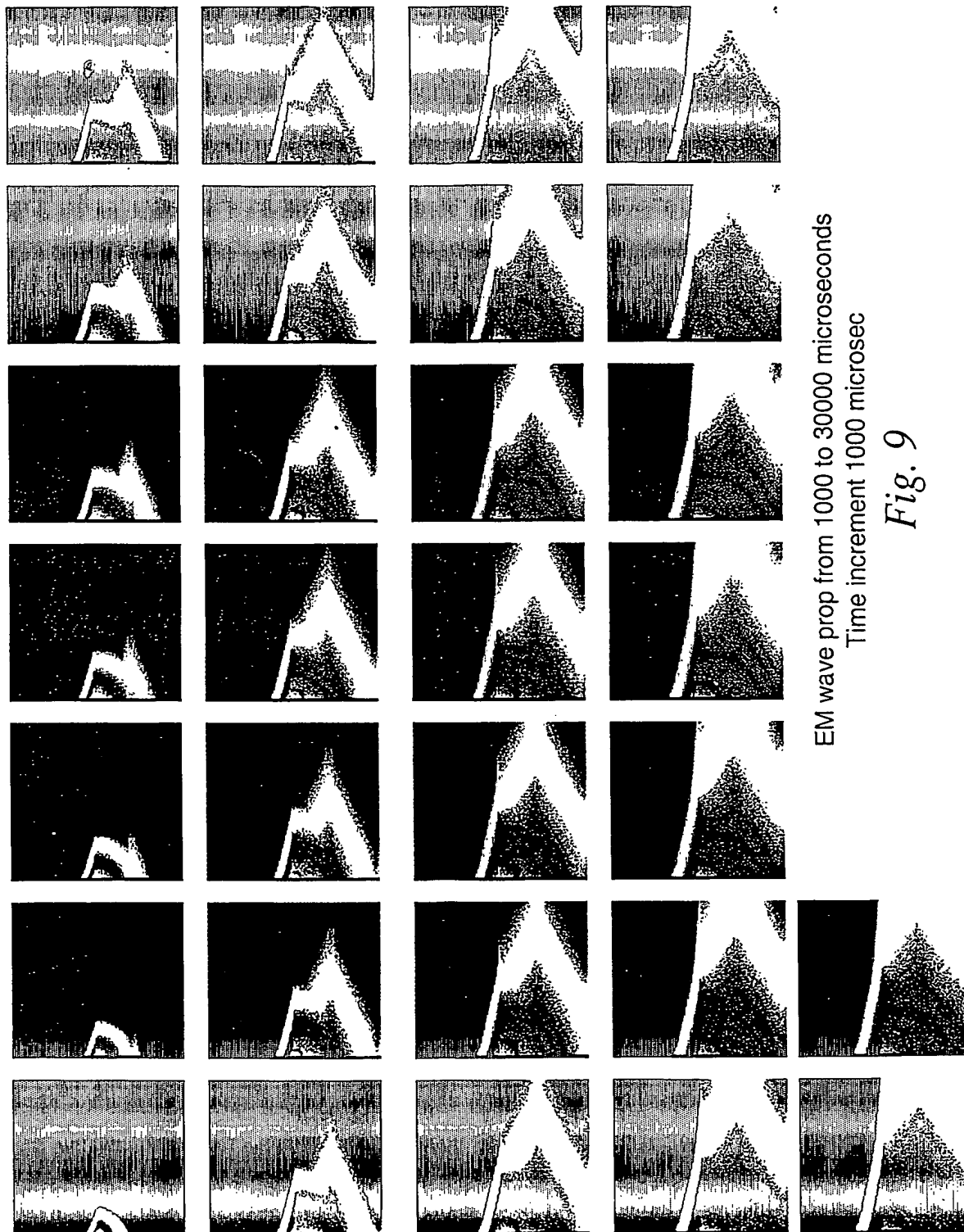
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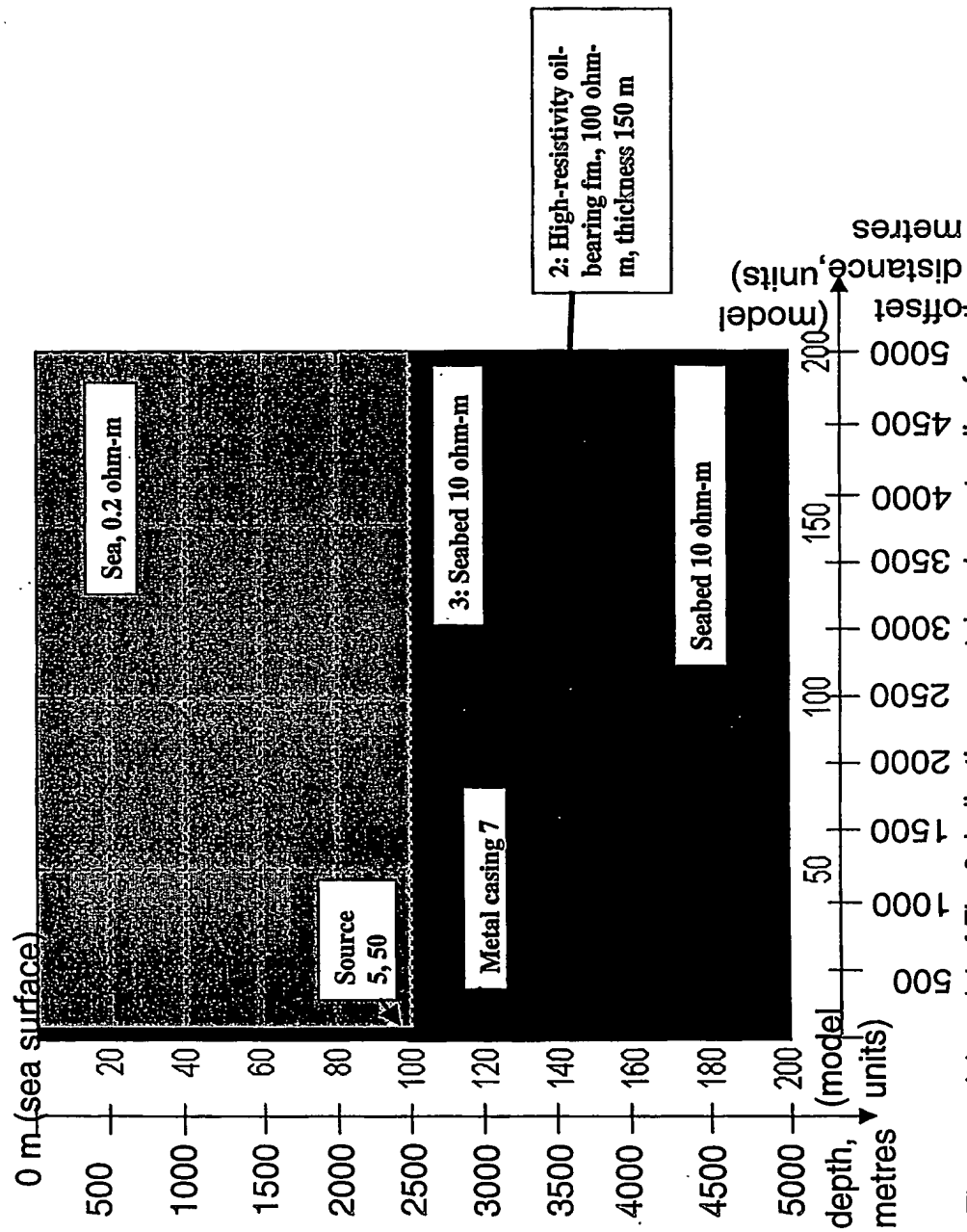


Electromagnetic signal propagated 20 000 microseconds

Fig. 8

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The material model of Fig. 9, indicating a metal casing extending from the seafloor at 2500 m to a total depth of 5000 m into the rocks, with an EM transmitter source on the casing at the seafloor. A high-resistivity oil-bearing rock layer is indicated.

Fig. 9b

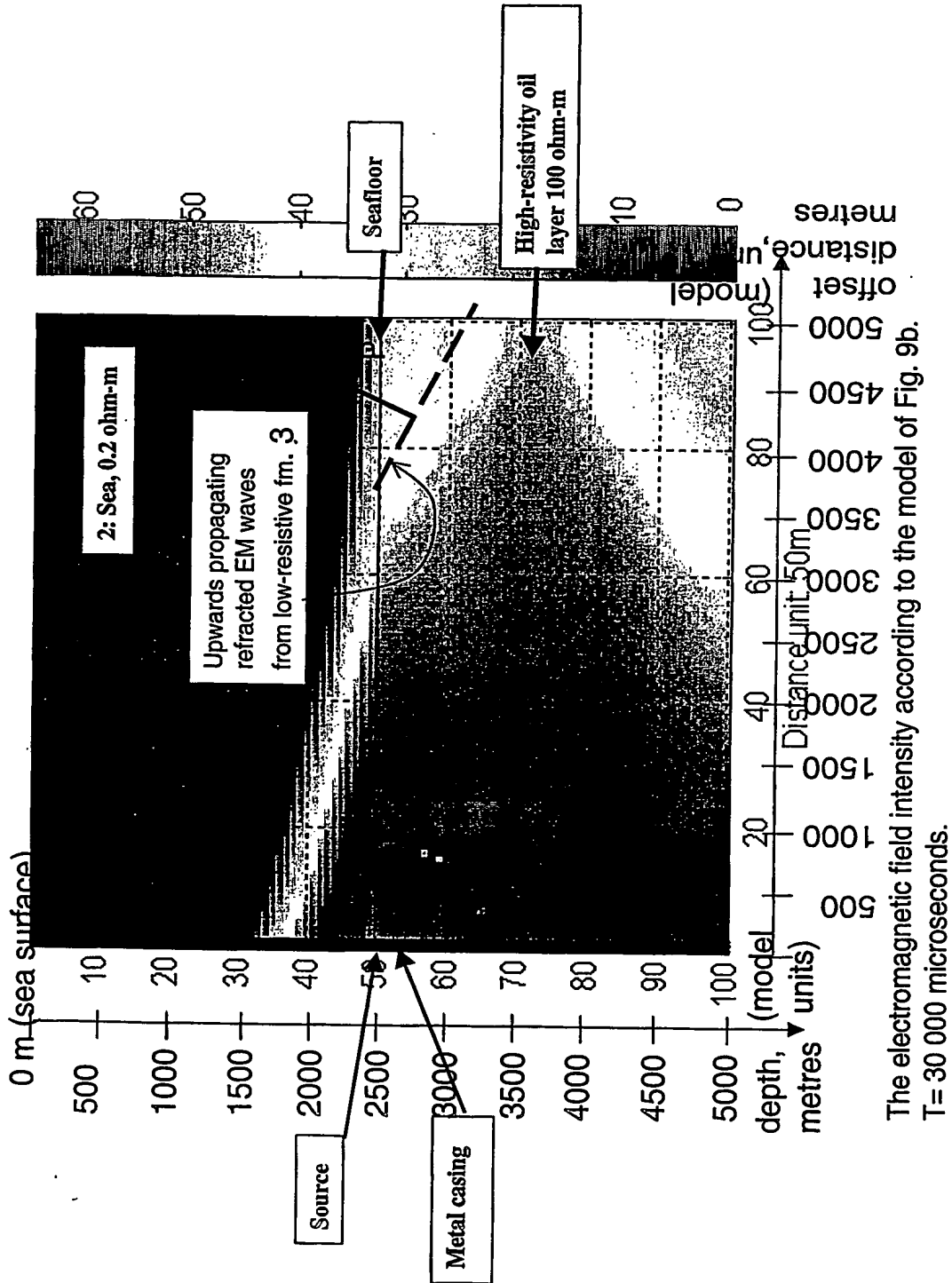
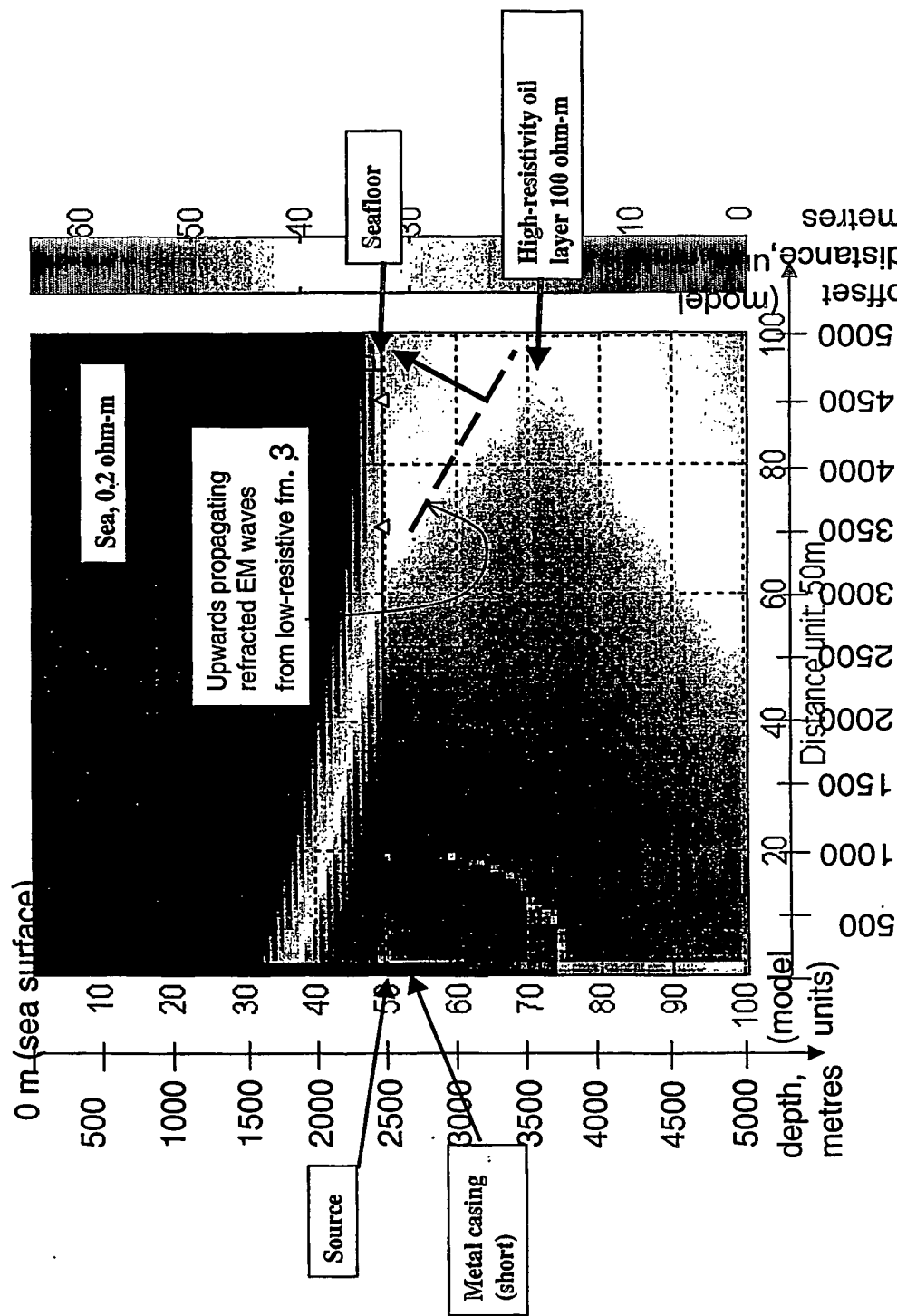
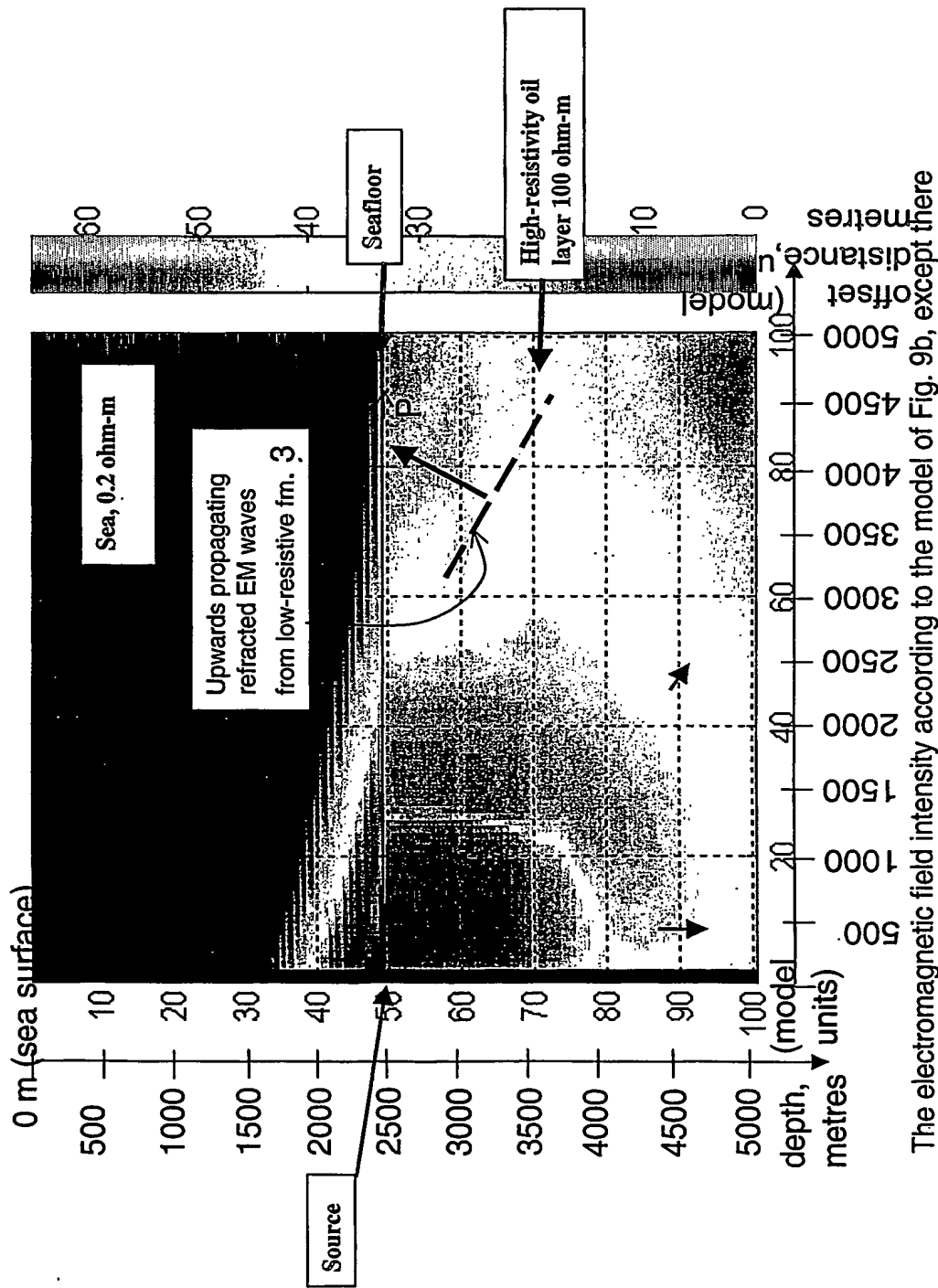


Fig. 10



The electromagnetic field intensity according to the model of Fig. 9b, except for a short casing that stops at 3000 m depth below sea surface, or 500 m below sea floor. T= 30 000 microseconds.

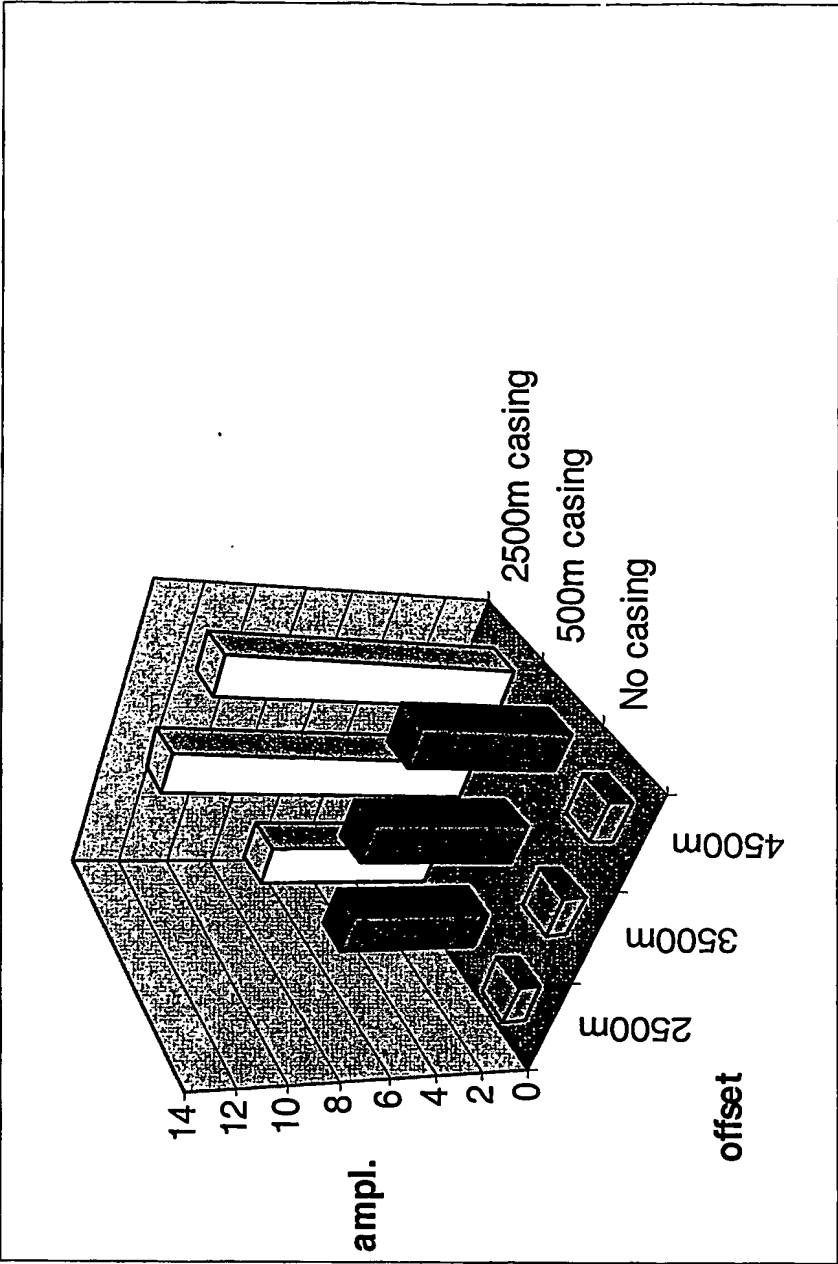
Fig. 11



The electromagnetic field intensity according to the model of Fig. 9b, except there being no casing at all in the well.  
T= 30 000 microseconds.

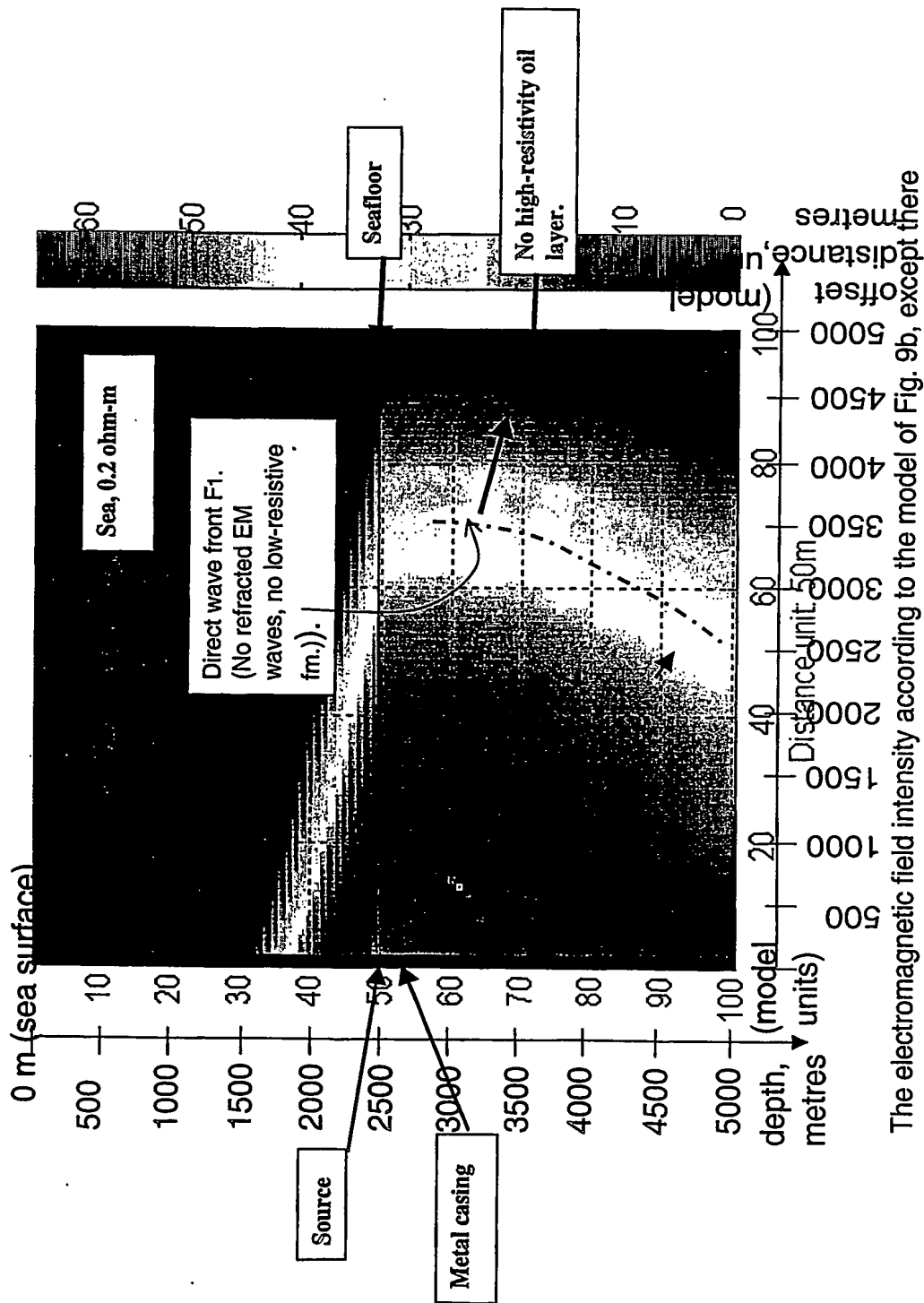
Fig. 12





A comparison between amplitudes as measured on the seabed at three different source-receiver (2500m, 3500m, and 4500m) offsets in the following situations: no casing, a short casing and a long casing.

*Fig. 13*



The electromagnetic field intensity according to the model of Fig. 9b, except there being no high resistivity layer.  
T= 30 000 microseconds.

Fig. 14

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